



No.1412C

2SA1370/2SC3467

PNP/NPN Epitaxial Planar Silicon Transistors

High-Definition CRT Display,
Video Output Applications

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Use

- Color TV chroma output and high breakdown voltage driver

Features

- High breakdown voltage: $V_{CEO} \geq 200V$
- Small reverse transfer capacitance and excellent high frequency characteristic $c_{re} = 1.2pF$ (NPN), $1.7pF$ (PNP)
- Adoption of FBET process

(): 2SA1370

Absolute Maximum Ratings at Ta=25°C

| | | | unit |
|------------------------------|------|-------------|------|
| Collector to Base Voltage | VCBO | (-) 200 | V |
| Collector to Emitter Voltage | VCEO | (-) 200 | V |
| Emitter to Base Voltage | VEBO | (-) 5 | V |
| Collector Current | IC | (-) 100 | mA |
| Collector Current(Pulse) | ICP | (-) 200 | mA |
| Collector Dissipation | PC | 1.0 | W |
| Junction Temperature | Tj | 150 | °C |
| Storage Temperature | Tstg | -55 to +150 | °C |

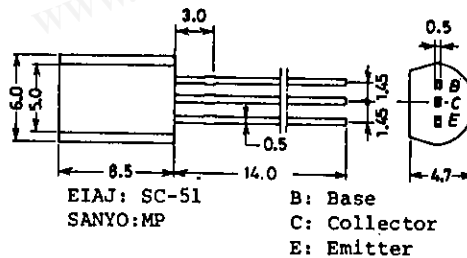
Electrical Characteristics at Ta=25°C

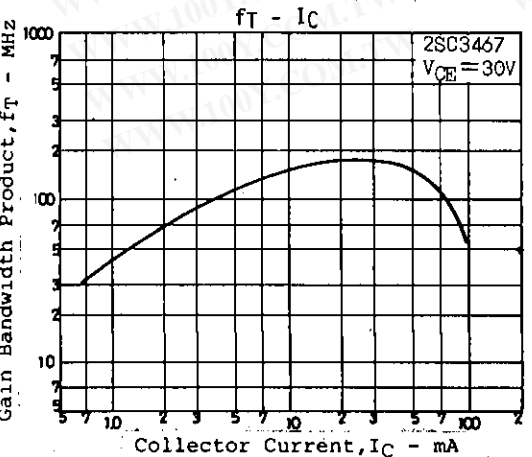
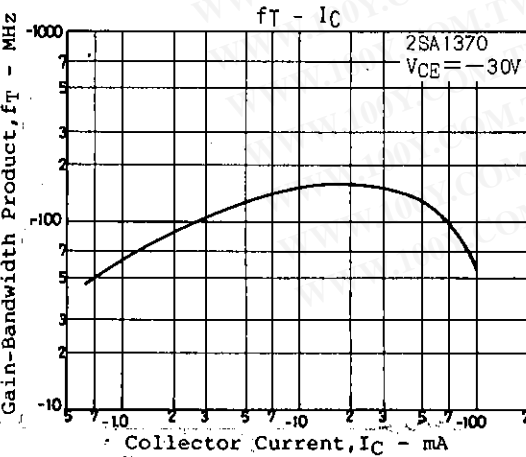
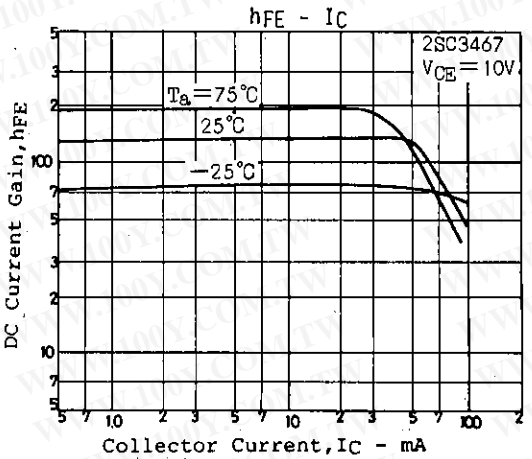
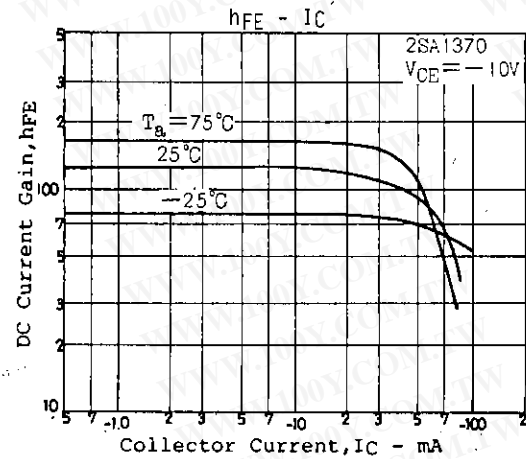
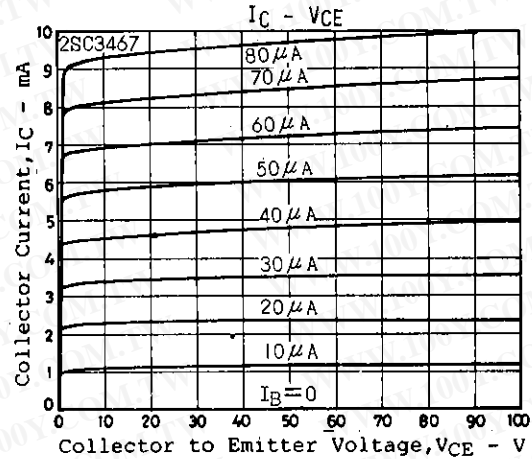
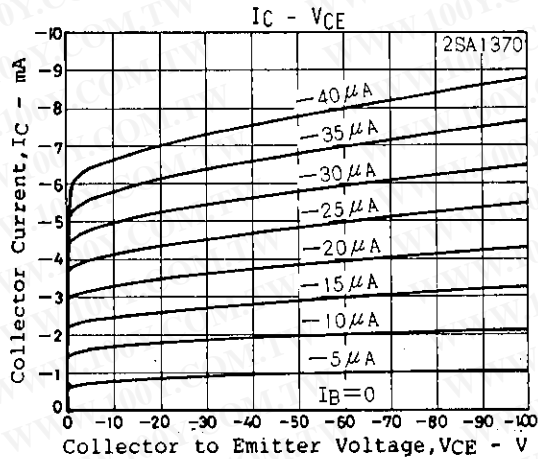
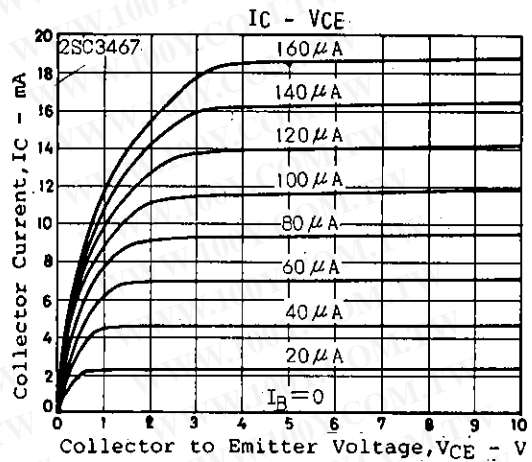
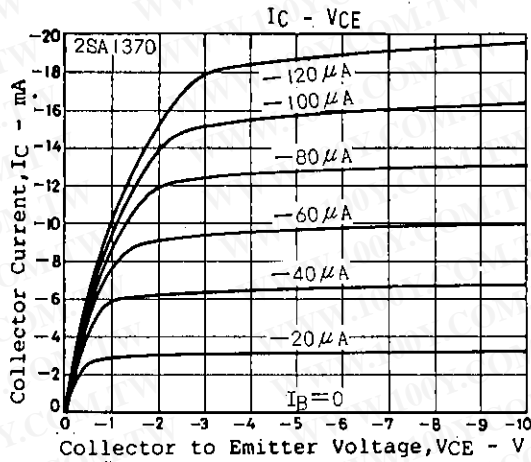
| | | | min | typ | max | unit |
|------------------------------|----------|--------------------------|---------|-------|---------|------|
| Collector Cutoff Current | ICBO | VCB=(-) 150V, IE=0 | | | (-) 0.1 | μA |
| Emitter Cutoff Current | IEBO | VEB=(-) 4V, IC=0 | | | (-) 0.1 | μA |
| DC Current Gain | hFE | VCE=(-) 10V, IC=(-) 10mA | 40* | | 320* | |
| Gain-Bandwidth Product | fT | VCE=(-) 30V, IC=(-) 10mA | | 150 | | MHz |
| C-E Saturation Voltage | VCE(sat) | IC=(-) 20mA, IB=(-) 2mA | | | (-) 0.6 | V |
| B-E Saturation Voltage | VBE(sat) | IC=(-) 20mA, IB=(-) 2mA | | | (-) 1.0 | V |
| C-B Breakdown Voltage | V(BR)CBO | IC=(-) 10μA, IE=0 | (-) 200 | | | V |
| C-E Breakdown Voltage | V(BR)CEO | IC=(-) 1mA, RBE=∞ | (-) 200 | | | V |
| E-B Breakdown Voltage | V(BR)EBO | IE=(-) 10μA, IC=0 | (-) 5 | | | V |
| Output Capacitance | cob | VCB=(-) 30V, f=1MHz | | 1.7 | | pF |
| | | | | (2.6) | | |
| Reverse Transfer Capacitance | cre | VCB=(-) 30V, f=1MHz | | 1.2 | | pF |
| | | | | (1.7) | | |

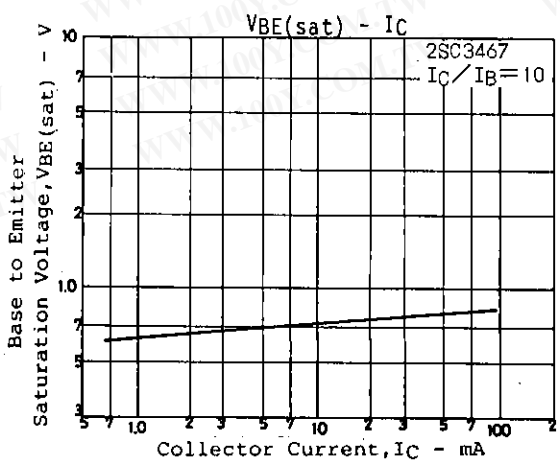
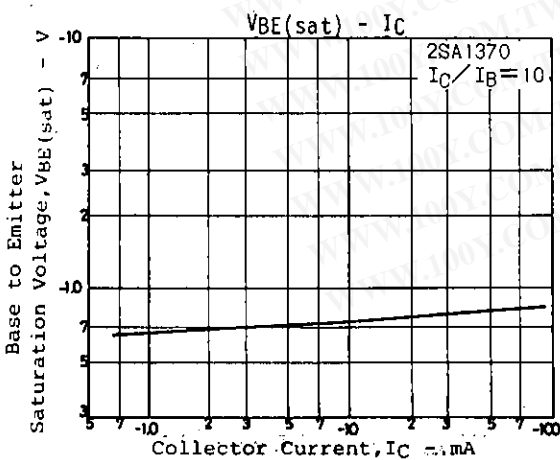
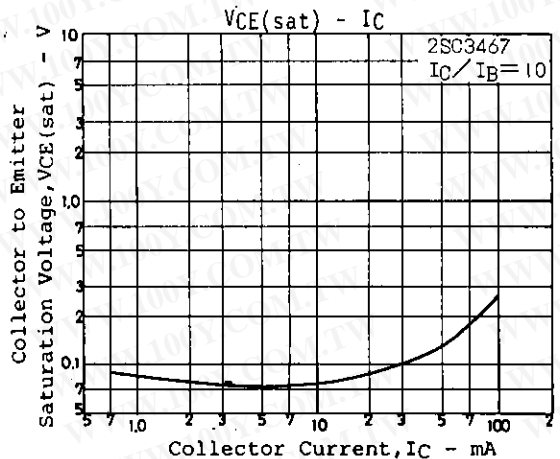
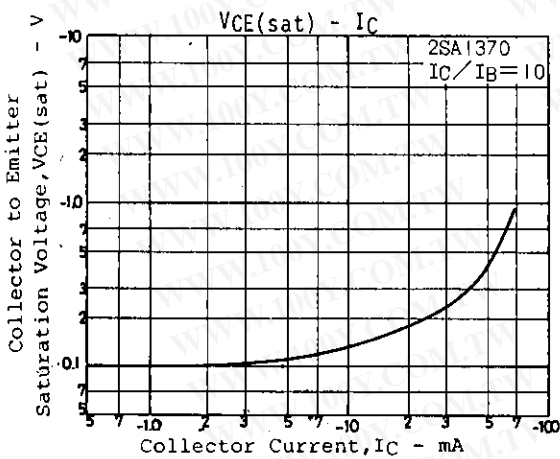
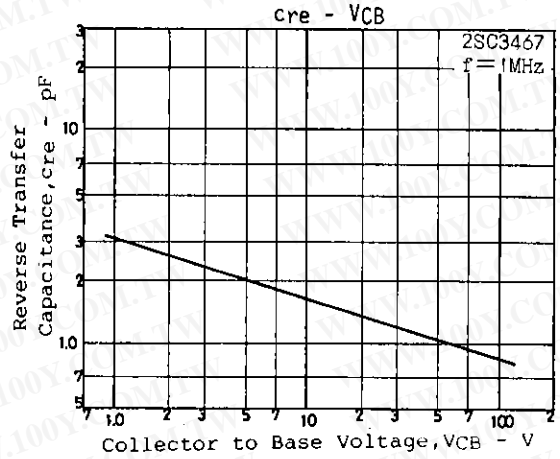
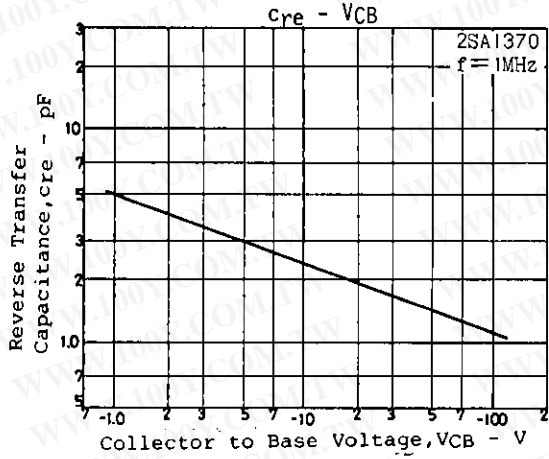
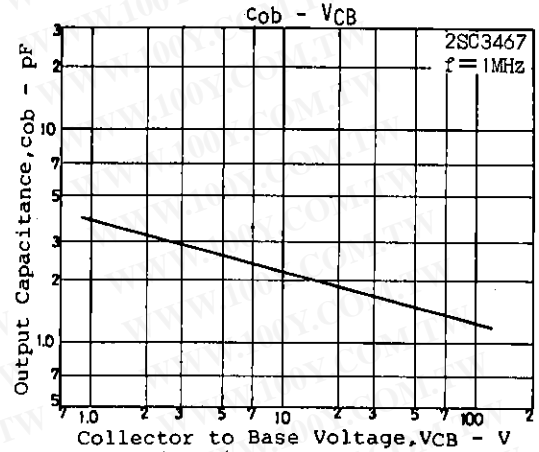
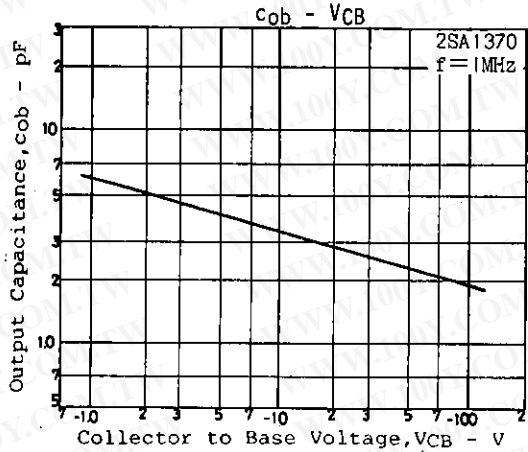
* : The 2SA1370/2SC3467 are classified by 10mA hFE as follows:

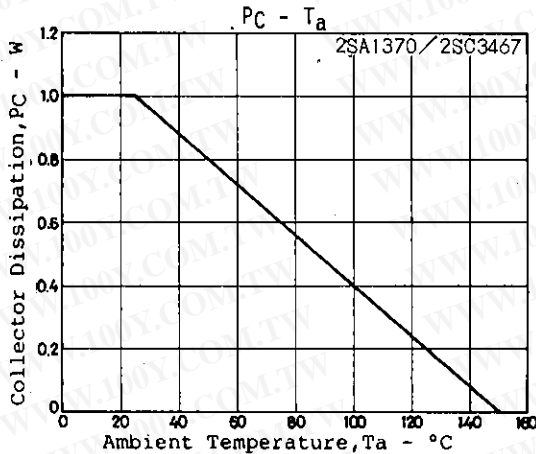
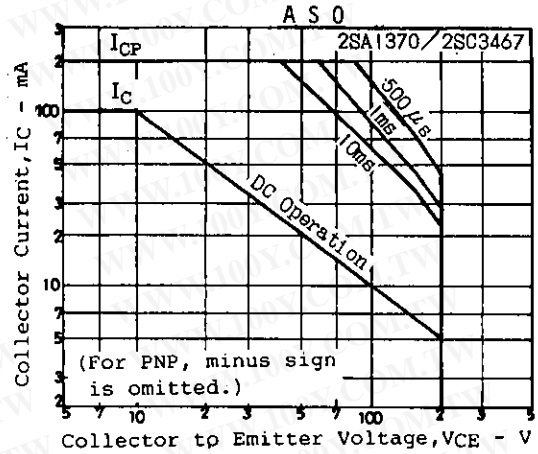
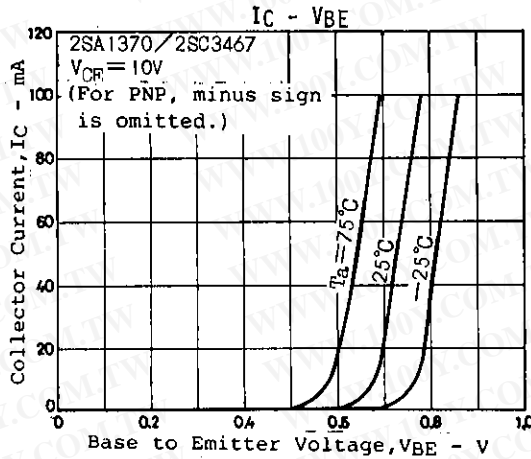
| | | | | | | | | | | | |
|----|---|----|----|---|-----|-----|---|-----|-----|---|-----|
| 40 | C | 80 | 60 | D | 120 | 100 | E | 200 | 160 | F | 320 |
|----|---|----|----|---|-----|-----|---|-----|-----|---|-----|

Package Dimensions 2006A
(unit: mm)









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